



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/837,862	04/17/2001	Shai Dekel	18104.0011UI	7510

7590 07/15/2004

NEEDLE & ROSENBERG, P.C.
Suite 1200
The Candler Building
127 Peachtree Street, N.E.
Atlanta, GA 30303-1811

EXAMINER

LU, TOM Y

ART UNIT	PAPER NUMBER
----------	--------------

2621

DATE MAILED: 07/15/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

RECEIVED

JUL 29 2004

Technology Center 2600

Office Action Summary

Application No.

09/837,862

Applicant(s)

DEKEL ET AL.

Examiner

Tom Y Lu

Art Unit

2621

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☐ Responsive to communication(s) filed on ____.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-32 is/are pending in the application.
- 4a) Of the above claim(s) ____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) ____ is/are allowed.
- 6) ☒ Claim(s) 1-32 is/are rejected.
- 7) ☐ Claim(s) ____ is/are objected to.
- 8) ☐ Claim(s) ____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 13 March 2002 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. ____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date ____.
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. ____.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: ____.

DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

1. Claims 1-32 are rejected under 35 U.S.C. 102(e) as being anticipated by Chang et al (U.S. Patent No. 6,711,297 B1).

- a. Referring to Claim 1, Chang discloses an image storage device for storing a digital image (an image archive 112 is the claimed “image storage device”, column 5, line 7. Source images are the claimed “digital image”, column 5, line 6); a client computer (client computer 150, column 5, line 17) coupled to the communication network (network 160, column 5, line 18), wherein the client computer generates and transmits across the communication network coordinates (pixel coordinates, column 9, lines 44-45) defining a region of interest (the image area is the claimed “region of interest”, column 9, line 46) within the digital image; a server computer (server 140, column 5, line 16), coupled to the communication network and the image storage device, wherein the server computer performs the steps of: pre-processing the digital image through a lossless wavelet transformation (column 6, lines 18 and 47); receiving the coordinates from the client computer (column 9, lines 58-60); and progressively transmitting to the client computer the region of interest within the

digital image defined by the coordinates (column 11, line 67 and column 12, lines 1-5).

- b. Referring to Claim 2, Chang discloses wherein the server computer progressively transmits the region of interest to a select quality threshold (zoom factor at column 9, line 50 is the claimed “select quality threshold”).
- c. Referring to Claim 3, Chang discloses wherein the server computer progressively transmits the region of interest to lossless quality (column 6, line 47).
- d. Referring to Claim 4, Chang discloses wherein the client computer reverse transforms the region of interest received from the server computer to form a lossless reproduction of the digital image (column 9, line 67).
- e. Referring to Claim 5, Chang discloses wherein client computer displays the lossless reproduction of the digital image on a web browser resident on the client computer (see figure 8B).
- f. Referring to Claim 6, Chang discloses wherein the server computer performs the pre-processing step through a lossless wavelet transformation comprising two non-identical one-dimensional transforms (column 8, lines 7-9, two different transforms for the columns and the rows. These two different transforms are one-dimensional transforms as mentioned at column 10, line 63).
- g. With regard to Claim 7, the only different between Claim 7 and Claim 1 is Claim 7 calls for additional feature steps of generating wavelet coefficients corresponding to the digital image (column 9, line 4); and generating half-bit flags, each half-bit flag corresponding to a wavelet coefficient (Poly[j] is the claimed “half-bit flags”, column 9, line 15).

Art Unit: 2621

- h. With regard to Claim 8, all limitations are addressed in Claim 2.
- i. With regard to Claim 9, all limitations are addressed in Claim 3.
- j. With regard to Claim 10, all limitations are addressed in Claim 4.
- k. With regard to Claim 11, all limitations are addressed in Claim 5.
- l. With regard to Claim 12, all limitations are addressed in Claim 6.
- m. With regard to Claim 13, all limitations are addressed in Claim 1.
- n. With regard to Claim 14, all limitations are addressed in Claim 2.
- o. With regard to Claim 15, all limitations are addressed in Claim 3.
- p. With regard to Claim 16, all limitations are addressed in Claim 4.
- q. With regard to Claim 17, all limitations are addressed in Claim 5.
- r. With regard to Claim 18, all limitations are addressed in Claim 6.
- s. With regard to Claim 19, all limitations are addressed in Claim 7.
- t. With regard to Claim 20, all limitations are addressed in Claim 8.
- u. With regard to Claim 21, all limitations are addressed in Claim 9.
- v. With regard to Claim 22, all limitations are addressed in Claim 10.
- w. With regard to Claim 23, all limitations are addressed in Claim 11.
- x. With regard to Claim 24, all limitations are addressed in Claim 12.
- y. With regard to Claim 25, all limitations are addressed in Claim 1.
- z. With regard to Claim 26, all limitations are addressed in Claim 2.
- aa. With regard to Claim 27, all limitations are addressed in Claim 3.
- bb. With regard to Claim 28, all limitations are addressed in Claim 4.
- cc. With regard to Claim 29, all limitations are addressed in Claim 5.
- dd. With regard to Claim 30, all limitations are addressed in Claim 6.

- ee. With regard to Claim 31, all limitations are addressed in Claim 7.
- ff. With regard to Claim 32, all limitations are addressed in Claim 8.
- gg. With regard to Claim 33, all limitations are addressed in Claim 9.
- hh. With regard to Claim 34, all limitations are addressed in Claim 10.
- ii. With regard to Claim 35, all limitations are addressed in Claim 11.
- jj. With regard to Claim 36, all limitations are addressed in Claim 12.

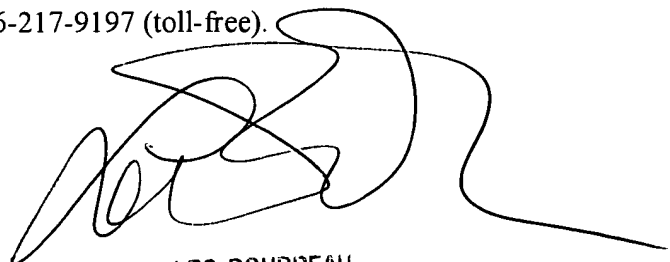
Conclusion

2. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tom Y Lu whose telephone number is (703) 306-4057. The examiner can normally be reached on 8:30AM-5PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Leo H Boudreau can be reached on (703) 305-4706. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Tom Y. Lu

A handwritten signature in black ink, appearing to read 'Leo Boudreau', with a long horizontal line extending to the right.

LEO BOUDREAU
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2600